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NOTICE OF ALLOWANCE AND FEE(S) DUE

26161

7590

08/04/2008

FISH & RICHARDSON PC P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022 EXAMINER

SUGARMAN, SCOTT I

ART UNIT PAPER NUMBER

2873 DATE MAILED: 08/04/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/917,504	07/27/2001	Karl-Heinz Schuster	17979-030001	6246	

TITLE OF INVENTION: LARGE-APERTURED PROJECTION LENS WITH MINIMAL DIAPHRAGM ERROR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/04/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

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appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance of nerwise in Block 1, by (a	rders and notification a) specifying a new c	of n	naintenance fees w pondence address;	ill be and/o	mailed to the current (b) indicating a sepa	corre	espondence address as "FEE ADDRESS" for
CURRENT CORRESPOND		Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, in have its own certificate of mailing or transmission.				v other accompanying			
FISH & RICH P.O. BOX 1022 MINNEAPOLIS	/2008		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Units States Postal Service with sufficient postage for first class mail in an envelog addressed to the Mail Stop ISSUE FEE address above, or being facsimi transmitted to the USPTO (571) 273-2885, on the date indicated below.					osited with the United ss mail in an envelope e, or being facsimile	
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CO	ONFIRMATION NO.
09/917,504 TITLE OF INVENTION	07/27/2001 I: LARGE-APERTUREI) PROJECTION LENS V	Karl-Heinz Schust WITH MINIMAL DIA		AGM ERROR		17979-030001		6246
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nonprovisional	NO	\$1440	\$300		\$0		\$1740		11/04/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
SUGARMAN, SCOTT J 2873			359-649000		_				
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form	data will appear on t	rnatives single of a tattor ll be or type he page an a	rely, e firm (having as a gent) and the nammers or agents. If printed. e) ttent. If an assignassignment.	membes of uno nam	er a 2p to lee is 3lentified below, the de	ocum	ent has been filed for
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• •	ns SMALL ENTITY statu	is. See 37 CFR 1.27.					ΓΙΤΥ status. See 37 CI		
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other tl c Office.	han tl	ne applicant; a regi	stered	attorney or agent; or th	ie ass	ignee or other party in
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Typed or printed name			Registration No.						
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26161 75	90 08/04/2008		EXAMINER			
FISH & RICHAF	RDSON PC		SUGARMAN, SCOTT J			
P.O. BOX 1022			ART UNIT	PAPER NUMBER		
MINNEAPOLIS, MN 55440-1022			2873			
		DATE MAILED: 08/04/2008				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 211 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 211 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	09/917,504	SCHUSTER ET AL.
Notice of Allowability	Examiner	Art Unit
	Scott J. Sugarman	2873
	Scott J. Sugarman	2013
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the amendment of Ma</u>	a <u>y 29, 2003</u> .	
2. ☐ The allowed claim(s) is/are 19-92.		
3. Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f).	
a) ☑ All b) ☐ Some* c) ☐ None of the:		
 Certified copies of the priority documents have 	e been received.	
Certified copies of the priority documents have	been received in Application No.	·
3. Copies of the certified copies of the priority do	cuments have been received in thi	s national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) \square including changes required by the Notice of Draftspers	son's Patent Drawing Review(PT0	O-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL	. must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application
Notice of Preferences Oried (170-032) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar	' '
	Paper No./Mail D	ate
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>12-2-02</u> 	7. 🔲 Examiner's Amen	ament/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stater	nent of Reasons for Allowance
·	9.	

DETAILED ACTION

Specification

The substitute specification filed July 25, 2004 has been approved for entry.

Allowable Subject Matter

Claims 19-92 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art does not teach or suggest a projection lens having a system diaphragm in a region of a last bulge on an image side having the recited numerical aperture, recited image field diameter, the recited pupil plane, a lens group of negative refractive power at each waist, a lens group of positive power at each bulge and where at least three positive lenses of the lens group of the third bulge are arranged before the pupil plane (independent claim 19). The prior art does not teach or suggest a projection lens having a system diaphragm in a region of a last bulge on an image side having the recited numerical aperture, recited image field diameter, the recited telecentricity deviation, a lens group of negative refractive power at each waist, a lens group of positive power at each bulge and where at least three positive lenses of the lens group of the third bulge are arranged before the pupil plane (independent claim 30). The prior art does not teach or suggest a projection lens having a system diaphragm in a region of a last bulge on an image side having the recited numerical aperture, recited image field diameter, a tangential image dishing of a pupil image in a diaphragm space

corrected to less than 20 mm, a lens group of negative refractive power at each waist, a lens group of positive power at each bulge and where at least three positive lenses of the lens group of the third bulge are arranged before the pupil plane (independent claim 42). The prior art does not teach or suggest a projection lens having a system diaphragm in a region of a last bulge on an image side having the recited numerical aperture, the recited pupil plane, where a lens with an aspheric surface is arranged before a first waist (independent claim 54). The prior art does not teach or suggest a projection lens having a system diaphragm in a region of a last bulge on an image side having the recited numerical aperture, the recited image field diameter, the recited telecentricity deviation, where a lens with an aspheric surface is arranged before a first waist (independent claim 67).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott J. Sugarman whose telephone number is (571)272-2340.

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Art Unit: 2873

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky L. Mack can be reached on (571)272-2333. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Scott J. Sugarman/ Primary Examiner, Art Unit 2873

sjs July 31, 2008